Title (en)
METHOD FOR COMPENSATING DRIFT IN A POSITION MEASURING DEVICE

Title (de)
VERFAHREN ZUR DRIFTKOMPENSATION IN EINER POSITIONSMESSEINRICHTUNG

Title (fr)
PROCÉDÉ POUR COMPENSER UNE DÉRIVE DANS UN DISPOSITIF DE MESURE DE POSITION

Publication
EP 2104834 A1 20090930 (EN)

Application
EP 07852277 A 20071214

Priority
• SE 2007051006 W 20071214
• SE 0700029 A 20070109

Abstract (en)
[origin: WO2008085100A1] Method for compensating the drift of a means for position measurement which is mounted on an object, such as a ship or another vehicle, comprising at least one gyro (6) for measuring rotation of the object about an axis and at least one accelerometer (3) for measuring two mutually perpendicular components of the acceleration of gravity as a consequence of the orientation of the object relative to the acceleration of gravity along two mutually perpendicular directions, which together correspond to the rotation of the object about said axis. The invention is characterized in that the output signal (4) from the accelerometer is low-pass filtered, in that the output signal (7) from the gyro is low-pass filtered, in that these two signals are compared and that the output signal (7) from the gyro (6) is compensated using an output signal (4) from the accelerometer (3) so that the deviation of the out- put signal (7) of the gyro (ß) because of drift is decreased or eliminated, and in that the thus produced, compensated signal (16) constitutes an output signal from the gyro (6).

IPC 8 full level
G01C 19/72 (2006.01); **G01C 21/16** (2006.01)

CPC (source: EP SE US)
G01C 19/00 (2013.01 - EP US); **G01C 19/72** (2013.01 - SE); **G01C 21/18** (2013.01 - SE); **G01C 21/183** (2020.08 - EP SE US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008085100 A1 20080717; BR PI0719633 A2 20131217; CN 101617199 A 20091230; CN 101617199 B 20130619; EP 2104834 A1 20090930; EP 2104834 A4 20100113; IL 199530 A 20150226; NO 20092750 L 20090723; SE 0700029 L 20080710; SE 531778 C2 20090804; US 2010042349 A1 20100218; US 8321168 B2 20121127

DOCDB simple family (application)
SE 2007051006 W 20071214; BR PI0719633 A 20071214; CN 200780049464 A 20071214; EP 07852277 A 20071214; IL 19953009 A 20090624; NO 20092750 A 20090723; SE 0700029 A 20070109; US 52190007 A 20071214